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PTO/SB/05 (08-00)

Approved for use through 10/31/2002. OMB 0651-0032
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original, and a duplicate for fee processing)
2. Applicant claims small entity status.
See 37 CFR 1.27.
3. Specification **[Total pages: 106]**
(preferred arrangement set forth below)
 - Descriptive title of the Invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (*if filed*)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
4. Drawing(s) (35 U.S.C. 113) **[Total Sheets: 40]**
5. Oath or Declaration **[Total Pages 2]**
 - a. Unexecuted (original or copy)
 - b. Copy from a prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 17 completed)
 - i. **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. Application Data Sheet. See 37 CFR 1.76.

Attorney Docket No.	PF509P2
First Inventor	Betenbaugh et al.
Title	Engineering Intracellular Sialylation Pathways
Express Mail Label No.	

ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

7. CD-ROM or CD-R in duplicate, large table or Computer Program (*Appendix*)
8. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)
 - a. Computer Readable Form (CRF)
 - b. Specification Sequence Listing on:
 - i. CD-ROM or CD-R (2 copies); or
 - ii. paper (12 pages)
 Statements verifying identity of above copies
 - c.

ACCOMPANYING APPLICATION PARTS

9. Assignment Papers (cover sheet and document(s))
10. 37 CFR 3.73(b) Statement Power of Attorney
11. English Translation Document (*if applicable*)
12. Information Disclosure Statement/ Form PTO/SB/08
 Copies of Citations
13. Preliminary Amendment
14. Return Receipt Postcard (MPEP 503)
(should be specifically itemized)
15. Certified copy of Priority Document(s)
(if foreign priority is claimed)
16. Other:

17. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

Continuation Divisional Continuation-in-Part (CIP)
Prior application information: Examiner _____ of prior application No: _____ / _____
 Group/Art Unit: _____

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

18. CORRESPONDENCE ADDRESS

Customer Number or Bar Code Label **22195** or Correspondence address below

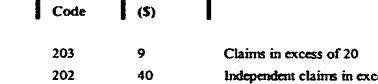
NAME				
ADDRESS				
CITY		STATE		ZIP CODE
COUNTRY		TELEPHONE		FAX
NAME (Print/Type)	Jonathan L. Klein			Registration No. (Attorney/Agent) 41,119
SIGNATURE				Date 8/16/01

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**FEE TRANSMITTAL
for FY 2001**

Patent fees are subject to annual revision.

Complete if Known

FEE TRANSMITTAL for FY 2001					Complete if Known					
<i>Patent fees are subject to annual revision.</i>										
					Application Number		Not assigned			
					Filing Date		Concurrently herewith			
					First Named Inventor		Betenbaugh et al.			
					Examiner Name		Not assigned			
					Group Art Unit		Not assigned			
Total amount of payment		(\$)			\$ 1,356.00		Attorney Docket Number		PF509P2	
METHOD OF PAYMENT (CHECK ONE)					FEE CALCULATION (CONTINUED)					
1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any overpayment to: Deposit Account No. 08-3425 Deposit Account Name: Human Genome Sciences, Inc.					3. ADDITIONAL FEES Large Entity Small Entity					
2. <input type="checkbox"/> Payment Enclosed: <input checked="" type="checkbox"/> Check <input type="checkbox"/> Credit Card <input type="checkbox"/> Money Order <input checked="" type="checkbox"/> Other*					Fee Code Fee (\$) Fee Code Fee (\$) Fee Description Fee Paid					
*Charge any deficiencies or credit any overpayments in the fees or fee calculations of Parts 1, 2 and 3 below to Deposit Account No. 08-3425					105 130 205 65 Surcharge - late provisional filing fee or cover sheet					
					127 50 227 25 Surcharge - late provisional filing fee or cover sheet					
					139 130 139 130 Non-English specification					
					147 2,520 147 2,520 For filing a request for ex parte reexamination					
					112 920 112 920 Requesting publication of SIR prior to Examiner action					
					113 1,840 113 1,840 Requesting publication of SIR after Examiner action					
					115 110 215 55 Extension for reply within first month					
					116 390 216 195 Extension for reply within second month					
					117 890 217 445 Extension for reply within third month					
					118 1,390 218 695 Extension for reply within fourth month					
					128 1,890 228 945 Extension for reply within fifth month					
					119 310 219 155 Notice of Appeal					
					120 310 220 155 Filing a brief in support of an appeal					
					121 270 221 135 Request for oral hearing					
					138 1,510 138 1,510 Petition to institute a public use proceeding					
FEE CALCULATION										
1. BASIC FILING FEE										
Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid					
101	710	201	355	Utility filing fee	710.00					
106	320	206	160	Design filing fee						
107	490	207	245	Plant filing fee						
108	710	208	355	Reissue filing fee						
114	150	214	75	Provisional filing fee						
Subtotal (1)					\$ 710.00					
2. EXTRA CLAIM FEES										
Total claims	47	- 20**	Extra 27	Fee from below	Fee Paid					
Indep. claims	5	- 3**	2		\$ 160.00					
Multiple Dependent					\$					
Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description						
103	18	203	9	Claims in excess of 20						
102	80	202	40	Independent claims in excess of 3						
104	270	204	135	Multiple dependent claim						
108	80	209	40	**Reissue independent claims over original patent						
110	18	210	9	**Reissue claims in excess of 20 and over original patent						
Subtotal (2)					(\$) 1,356.00					
Submitted By: Jonathan L. Klein					Registration No.: 41,119			Telephone	301-309-8504	
Signature: 								Date	8/16/01	

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